

A' Sub 132
4. (Amended) A silicon/silicon carbide composite according to claim 1, said silicon/silicon carbide composite includes a semiconductor heat treatment member.

Sub 280 A
8. (Amended) A process for manufacturing a silicon/silicon carbide composite according to claim 6, wherein the length of each cellulose fiber is 1.5 mm or more.

9. (Amended) A process for manufacturing a silicon/silicon carbide composite according to claim 6, wherein said cellulose fiber is paper pulp.

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A 3
11. (Amended) A process for manufacturing a silicon/silicon carbide composite according to claim 6, wherein the bulk density of the porous carbon body produced by said first step is 0.70 g/cm³ or less.

12. (Amended) A process for manufacturing a silicon/silicon carbide composite according to claim 6, in which a silicification treatment in said second step is conducted by either a reaction with fused silicon or a reaction with silicon monoxide gas.

A 4
15. (Amended) A process for manufacturing a silicon/silicon carbide composite according to claim 6, wherein the porous carbon body produced by said first step is heated at a temperature of 1100°C to 2000°C in an atmosphere of halogen gas to be purified prior to the second step.

Please add claims 18 through 29 as follows:

Sub 132 A 5
18. A silicon/silicon carbide composite according to claim 2, wherein said silicon/silicon carbide composite includes a dummy wafer with a silicon carbide film having a thickness of 30 to 150 μm formed on the surface thereof, said dummy wafer having a total thickness of 0.5 to 1 mm.

Sub 122
cont
~~19. A silicon/silicon carbide composite according to claim 2, said silicon/silicon carbide composite includes a semiconductor heat treatment member.~~

Sub 122
cont
~~20. A process for manufacturing a silicon/silicon carbide composite according to claim 7, wherein the length of each cellulose fiber is 1.5 mm or more.~~

~~21. A process for manufacturing a silicon/silicon carbide composite according to claim 7, wherein said cellulose fiber is paper pulp.~~

~~22. A process for manufacturing a silicon/silicon carbide composite according to claim 7, wherein the bulk density of the porous carbon body produced by said first step is 0.70 g/cm³ or less.~~

~~23. A process for manufacturing a silicon/silicon carbide composite according to claim 10, wherein the bulk density of the porous carbon body produced by said first step is 0.70 g/cm³ or less.~~

~~24. A process for manufacturing a silicon/silicon carbide composite according to claim 7, in which a silicification treatment in said second step is conducted by either a reaction with fused silicon or a reaction with silicon monoxide gas.~~

~~25. A process for manufacturing a silicon/silicon carbide composite according to claim 10, in which a silicification treatment in said second step is conducted by either a reaction with fused silicon or a reaction with silicon monoxide gas.~~

~~26. A process for manufacturing a silicon/silicon carbide composite according to claim 7, wherein the porous carbon body produced by said first step is heated at a temperature of 1100°C to 2000°C in an atmosphere of halogen gas to be purified prior to the second step.~~